## SIEMENS

## Data sheet

## 3RT2016-4AR62



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, size: S00  $\,$ 

product brand name         SIRUS           product brand designation         Power contactor           product type designation         SRT2           Central technical data         S00           product stension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [V] for rated value of the current         0.9 W           • at AC in hot operating state         0.9 W           • at AC in hot operating state per pole         0.3 W           • without load current share typical         1.2 W           insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of auxiliary discuit rated value         6 kV           • of auxiliary discuit rated value         6 kV           • of auxiliary discuit rated value         8 kV           • of auxiliary discuit rated value         5 kV           • of auxiliary discuit rated value         5 kV           • of auxiliary discuit rated value         5 kV           <		
product type designation         SRT2           Caneral technical data	product brand name	SIRIUS
General technical data     S00       size of contactor     S00       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state proje     0.3 W       • without load current share typical     1.2 W       Insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit ated value     64 V       • of main circuit rated value     64 V       • of auxiliary circuit ated value     64 V       • of auxiliary circuit rated value     64 V       • of auxiliary circuit ated value     600 V       • of auxiliary circuit ated value     600 V       • of the contactor with added electronically optimized auxiliary switch block typical     30 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical	product designation	Power contactor
size of contactor     \$00       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     1.2 W       Insulation voltage     660 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary sitten block typical     30 000 000       • of the contactor with added electronically optimized     30 000 000       • of the contactor with added electronically optimized     30 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       reference code according to EEC 60068-2-30     Q       Substance Prohibitance (Date)     240 "C<	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     1.2 W       insulation voltage     690 V       • of main circui with degree of pollution 3 rated value     690 V       • of an in circui trated value     690 V       • of main circui trated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of an in circuit rated value     6 kV       • of main circuit rated value     6 kV       • of and main contacts according to EN 0397-1     5 hock resistance at rectangular impulse       • at AC     6.7g / 5 ms, 4.2g / 10 ms       * at AC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     0 0 00 00       • of the contactor with added auxiliary switch block typical     0 0 00 00       • of	General technical data	
• function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     -       • at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     1.2 W       insulation voitage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit ated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     6,7g / 5 ms, 4,2g / 10 ms       shock resistance with sine pulse     10.5g / 5 ms, 6,8g / 10 ms       • at AC     10,5g / 5 ms, 6,8g / 10 ms       mechanical service life (operating ywitch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 001/2009	size of contactor	S00
• auxiliary switch         Yes           power loss [W] for rated value of the current         0.9 W           • at AC in hot operating state per pole         0.3 W           • at AC in hot operating state per pole         0.3 W           • without load current share typical         1.2 W           insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         64V           • of main circuit rated value         64V           • of auxiliary circuit with degree of pollution 3 rated value         64V           • of auxiliary circuit rated value         64V           maximum permissible voltage for protective separation between col and main contacts according to EN 60947-1         600 V           shock resistance at rectangular impulse         610.5g / 5 ms, 6.6g / 10 ms           • at AC         6.7g / 5 ms, 6.6g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000	product extension	
power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state prole     0.3 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     1.2 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of nain circuit value     6 kV       • of main circuit stated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     6.7g / 5 ms, 4.2g / 10 ms       shock resistance with sine pulse     6.7g / 5 ms, 6.6g / 10 ms       • at AC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     5 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state     0.9 W       • at AC in hot operating state price     0.3 W       • without load current share typical     1.2 W       insultation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of auxiliary circuit rated value     6 kV       • of auxiliary sitch block typical     400 V       • at AC     10.5g / 5 ms, 4.2g / 10 ms       shock resistance with sine pulse     30 000 000       • at AC     10.5g / 5 ms, 6.6g / 10 ms       • of the contactor typical     30 000 000       • of the contactor with added electronically optimized     30 000 000       • of the contactor with added electronically optimized     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000<	auxiliary switch	Yes
et AC in hot operating state per pole         of analin circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit rated value         of auxiliary circuit rated value         of auxiliary circuit rated value         of kV         maximum permissible voltage for protective separation between         coli and main contacts according to EN 60947-1         shock resistance at rectangular impulse             e at AC             for state at cetangular impulse             e at AC             for contactor typical             e of contactor typical             e of contactor typical             for contactor with added electronically optimized             auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for one conditions             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the conditions             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical             for the contactor with added auxiliary switch block typical	power loss [W] for rated value of the current	
• without load current share typical       1.2 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         out and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6.7g / 5 ms, 4.2g / 10 ms         • at AC       10.5g / 5 ms, 6.6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       1001/2009         Ambient conditions       -25 +60 °C         • during poreation       -25 +60 °C         • during storage       -55 +80 °C         • during storage       -55 +80 °C         • during storage       -55 +80 °C         • during	<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         reference code according to IEC 8136-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient temperature       -         • during storage       -25 +60 °C         • during storage       -25 +60 °C         • during storage       -25 +60 °C <td< th=""><th><ul> <li>at AC in hot operating state per pole</li> </ul></th><th>0.3 W</th></td<>	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
• of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     680 V       • of main circuit rated value     6 kV       • of auxiliary circuit with degree of pollution 2 rated value     6 kV       • of auxiliary circuit rated value     6 kV       maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1     400 V       shock resistance at rectangular impulse     6,7g / 5 ms, 4,2g / 10 ms       • at AC     6,7g / 5 ms, 4,2g / 10 ms       shock resistance with sine pulse     6,7g / 5 ms, 6,6g / 10 ms       • at AC     10.5g / 5 ms, 6,6g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       efference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     2000 m       ambient temperature     -25 +60 °C       • during operation     -25 +60 °C       • during storage     -55 +60 °C       • during storage     -55 +60 °C       • during storage     -55 +60 °C <th><ul> <li>without load current share typical</li> </ul></th> <th>1.2 W</th>	<ul> <li>without load current share typical</li> </ul>	1.2 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       60 V         • at AC       6, 7g / 5 ms, 4,2g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary witch block typical       50000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +60 °C	insulation voltage	
surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       30 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance with sine pulse       6,7g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       0000         • of the contactor vith added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -55 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minum       10 %         95 %       95 %	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       -         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Amblent conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       95 %	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>6,7g / 5 ms, 4,2g / 10 ms</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>10,5g / 5 ms, 6,6g / 10 ms</li> </ul> mechanical service life (operating cycles)       000000         of contactor typical       30 000 000         of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -55 +60 °C         oturing operation       -25 +60 °C         e during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       95 %	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       5 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse10,5g / 5 ms, 6,6g / 10 ms• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		400 V
shock resistance with sine pulse       0.5g / 5 ms, 6,6g / 10 ms         e at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       40 mino circuit	shock resistance at rectangular impulse	
• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical20 000 m• ambient conditions2 000 m• installation altitude at height above sea level maximum2 000 m• during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Main circuit95 %	• at AC	6,7g / 5 ms, 4,2g / 10 ms
mechanical service life (operating cycles)       introduction of the contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       Main circuit	shock resistance with sine pulse	
• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	10,5g / 5 ms, 6,6g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>attribution</li> <li>attring attribution</li> <li>attribution</li> <li>attribu</li></ul>	mechanical service life (operating cycles)	
auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         Main circuit       95 %	<ul> <li>of contactor typical</li> </ul>	30 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         Main circuit       95 %		5 000 000
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         ambient temperature       2 000 m         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       4	Substance Prohibitance (Date)	10/01/2009
ambient temperature     -25 +60 °C       • during operation     -25 +60 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit	Ambient conditions	
• during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	installation altitude at height above sea level maximum	2 000 m
• during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       10 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main circuit     95 %	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3.5 A
— up to 200 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

	— at 24 V rated value	20 A
• with 2 current paths in space at DC-3 at DC-3U- at 20 V rated valueDA- at 20 V rated valueDA- at 10 V rated valueDA- at 24 V rated valueDA- at 240 V rated valueDA- at 250 V rated valueDA- at 250 V rated valueSS kW- at 250 V rated valueSS kW- at 250 V rated valueSS kW- at 250 V rated valueDS kW- at 250 V rated valueSS kW- at 250 V rated valueSS kW- at 250 V rated valueDS kW- at 250 V rated valueDS kW- at 250 V rated valueDS kW- at 250 V rated value ==20 rated valueSS kW- at 250 V rated value ==20 rated valueS kW- at 250 V for current pask value ==20 rated valueS kW- at 250 V for current pask value ==20 rated valueS kW- at 250 V for current pask value ==20 rated valueS kW- at 250 V for current pask value ==20 rated valueS kW- at 250 V for current pask value ==20 rated valueS kW- at 250 V for current pask value ==20 rated valueS kW- at 250 V for curent pask value ==2		
	— at 110 V rated value	0.15 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
• with 3 current path in series at DC-3 at DC-5- at 24 V rated value20 A- at 40 V rated value20 A- at 410 V rated value20 A- at 410 V rated value20 A- at 420 V rated value0.2 A- at 420 V rated value0.2 A- at 420 V rated value2.2 A- at 400 V rated value2.2 W- at 600 V rated value4 W- at 600 V rated value4 W- at 600 V rated value2.2 W- at 600 V rated value4 W- at 600 V rated value4 W- at 600 V rated value2.2 W- at 600 V rated value2.2 W- at 600 V rated value2.2 W- at 600 V rated value4 W- at 600 V rated value2.2 W- at 600 V rated value2.8 W- at 600 V rated value3.6 WA- at 600 V fract value7.0 WA- at 600 V fract value7.0 WA- at 600 V fract v	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
→ at 800 V rated value     0.2 Å       oparating power        → at 230 V rated value     2.2 kW       → at 230 V rated value     4 kW       → at 600 V rated value     4 kW       → at 600 V rated value     5 kW       → at 600 V rated value     2.2 kW       → at 600 V rated value     5 kW       → at 600 V rated value     2.0 kW       → at 600 V rated value     4 kW       → at 600 V rated value     2.0 kW       → at 600 V rated value = 2.0 rated value     2.0 kW       → at 600 V rated value = 2.0 rated value     2.0 kW       → at 600 V rated value = 2.0 rated value     2.0 kW       → at 600 V fracturet pack value = 70 rated value     3.0 kVA       → up to 500 V for current pack value = 70 rated value     3.0 kW       → at 600 V for current pack value = 70 rated value     3.1 kVA	— at 220 V rated value	1.5 A
operating power              • at AC3               22 kW             • at 230 V rated value             • at 230 V rated value             • at 600 V for current pack value n=20 rated value             • at 600 V for current pack value n=20 rated value             • at 600 V for current pack value n=20 rated value             • at 600 V for current pack value n=20 rated value             • at 600 V for current pack value n=20 rated value             • at 600 V for current pack value n=30 rated value             • at 600 V for current pack value n=30 rated value             • at 600 V for current pack value n=30 rated value             • at 600 V for current pack value n=30 rated value             • at 600 V for current pack value n=30 rated value             • at 600 V for current pack value n=30 rated value             • at 600 V for current pack value n=30 rated value             • at 600             • at 600 V for	— at 440 V rated value	0.2 A
• at 2C-3     22 kW       - at 230 V rated value     4 kW       - at 500 V rated value     4 kW       - at 500 V rated value     5 kW       - at 230 V rated value     5 kW       - at 230 V rated value     5 kW       - at 200 V rated value     2 kW       - at 200 V rated value     4 kW       - at 200 V rated value     4 kW       - at 200 V rated value     2 kW       - at 600 V rated value     3 kVA       - at 600 V rated value = 20 rated value     3 kVA       - up to 500 V for current pack value n=20 rated value     3 kVA       - up to 500 V for current pack value n=20 rated value     3 kVA       - up to 500 V for current pack value n=30 rated value     2 kWA       - up to 500 V for current pack value n=30 rated value     3 kVA       - up to 500 V for current pack value n=30 rated value     3 kVA       - up to 500 V for current pack value n=30 rated value     4 kWA       - up to 500 V for current pack value n=30 rated value     3 kVA       - up	— at 600 V rated value	0.2 A
	operating power	
	• at AC-3	
- at 500 V rated value     4 kW       - at 200 V rated value     55 kW       - at 200 V rated value     22 kW       - at 400 V rated value     4 kW       - at 600 V rated value     4 kW       - at 600 V rated value     55 kW       - at 600 V rated value     55 kW       - at 600 V rated value     55 kW       operating power for approx. 20000 operating cycles at AC-4     2 kW       - at 600 V rated value     2 kW       - at 400 V rated value     2 kW       - at 600 V for advalue     2 kW       - at 000 V rated value     2 kW       - at 000 V rated value     2 kW       - at 000 V for current peak value n=20 rated value     3 kVA       - up to 200 V for current peak value n=20 rated value     3 kVA       - up to 200 V for current peak value n=30 rated value     3 kVA       - up to 200 V for current peak value n=30 rated value     3 kVA       - up to 200 V for current peak value n=30 rated value     3 kVA       - up to 500 V for current peak value n=30 rated value     3 kVA       - up to 500 V for current peak value n=30 rated value     3 kVA       - up to 500 V for current peak value n=30 rated value     3 kVA       - up to 500 V for current peak value n=30 rated value     3 kVA       - up to 500 V for current peak value n=30 rated value     3 kVA       - uintited to 1	— at 230 V rated value	2.2 kW
	— at 400 V rated value	4 kW
• at AC-3e     2 2 kW       at 230 V rated value     4 kW       at 600 V rated value     4 kW       at 600 V rated value     4 kW       at 600 V rated value     5 kW       operating power for approx. 200000 operating cycles at AC-5     2 kW       • at 400 V rated value     2 kW       • at 400 V rated value     2 kW       • at 600 V rated value     2 kW       • up to 230 V for current pack value n=20 rated value     3 kVA       • up to 500 V for current pack value n=20 rated value     3 kVA       • up to 500 V for current pack value n=20 rated value     5 kVA       • up to 630 V for current pack value n=20 rated value     5 kVA       • up to 630 V for current pack value n=30 rated value     4 kVA       • up to 630 V for current pack value n=30 rated value     3 kVA       • up to 630 V for current pack value n=30 rated value     3 kVA       • up to 500 V for current pack value n=30 rated value     3 kVA       • up to 500 V for current pack value n=30 rated value     3 kVA       • up to 500 V for current pack value n=30 rated value     4 kVA       • do *C     1 kVA     2 kVA       • up to 500 V for current pack value n=30 rated value     3 kVA       • up to 500 V for current pack value n=30 rated value     3 kVA       • up to 500 V for current pack value n=30 rated value     4 kVA	— at 500 V rated value	4 kW
	— at 690 V rated value	5.5 kW
	● at AC-3e	
	— at 230 V rated value	2.2 kW
	— at 400 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4       2         i at 400 V rated value       2 kW         i et 600 V rated value       2.5 kW         operating apparent power at AC-6a       2 kVA         i up to 230 V for current peak value n=20 rated value       3.6 kVA         i up to 500 V for current peak value n=20 rated value       5.8 kVA         i up to 500 V for current peak value n=30 rated value       5.8 kVA         operating apparent power at AC-6a       1.3 kVA         i up to 500 V for current peak value n=30 rated value       1.3 kVA         i up to 500 V for current peak value n=30 rated value       1.3 kVA         i up to 500 V for current peak value n=30 rated value       3.1 kVA         i up to 500 V for current peak value n=30 rated value       3.1 kVA         i up to 500 V for current peak value n=30 rated value       4.1 kVA         i up to 500 V for current peak value n=30 rated value       4.1 kVA         i limited to 15 switching at zero current maximum       115 A: Use minimum cross-section acc. to AC-1 rated value         i limited to 5 switching at zero current maximum       11 A: Use minimum cross-section acc. to AC-1 rated value         i limited to 60 s switching at zero current maximum       64 V Use minimum cross-section acc. to AC-1 rated value         i limited to 5 s switching at zero current maximum       10 000 1/h <tr< td=""><td>— at 500 V rated value</td><td>4 kW</td></tr<>	— at 500 V rated value	4 kW
A to V rated value     at 400 V rated value     at 690 V rated value     at 690 V rated value     2 kW     25 kW     operating apparent power at AC-5a     u pt 0 230 V for current peak value n=20 rated value     3 kVA     4 kVA     up to 500 V for current peak value n=20 rated value     3 kVA     4 kVA     4 up to 500 V for current peak value n=20 rated value     5 s kVA     9 operating apparent power at AC-5a     4 up to 230 V for current peak value n=20 rated value     5 s kVA     9 up to 230 V for current peak value n=20 rated value     5 s kVA     9 up to 230 V for current peak value n=30 rated value     5 s kVA     9 up to 230 V for current peak value n=30 rated value     4 kVA     9 up to 500 V for current peak value n=30 rated value     4 kVA     9 up to 500 V for current peak value n=30 rated value     4 kVA     10 690 V for current peak value n=30 rated value     4 kVA     10 690 V for current peak value n=30 rated value     4 kVA     10 690 V for current peak value n=30 rated value     4 kVA     10 690 V for current peak value n=30 rated value     4 kVA     111 A; Use minimum cross-section acc. to AC-1 rated value     113 k; Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: Use minimum cross-section acc. to AC-1 rated value     114 i: AC-2 maximum     1000 1/h     114 i: AC-2 maximum     1000 1/h     114 i: AC-2 max	— at 690 V rated value	5.5 kW
• at 400 V rated value       2 kW         • at 690 V rated value       2.5 kW         operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       4.6 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       5.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       5.1 kVA         • ininindet to		
• at 680 V rated value       2.5 kW         operating apparent power at AC-5a       2 kVA         • up to 200 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       4.6 kVA         • up to 200 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-5a       5.9 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 600 V for current peak value n=30 rated value       3.1 kVA         • up to 600 V for current peak value n=30 rated value       3.1 kVA         • up to 600 V for current peak value n=30 rated value       4.VA         short-time withstand current in cold operating state up to 0.40 °C       4.VA         • limited to 1 s switching at zero current maximum       115 A: Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       6A ; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       5A ; Use minimum cross-section acc. to AC-1 rated value         • at AC-2       1000 1/h       1000 1/		
operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       2 kVA         • up to 500 V for current peak value n=20 rated value       3.6 kVA         • up to 6500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4. kVA         • up to 500 V for current peak value n=30 rated value       4. kVA         • up to 600 V for current peak value n=30 rated value       4. kVA         • up to 600 V for current peak value n=30 rated value       4. kVA         • up to 600 V for current peak value n=30 rated value       4. kVA         • up to 600 V for current peak value n=30 rated value       4. kVA         • up to 600 V for current peak value n=30 rated value       4. kVA         • imited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value		
up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     3.6 KVA     up to 500 V for current peak value n=20 rated value     5.9 KVA     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     1.3 KVA     up to 400 V for current peak value n=30 rated value     1.3 KVA     up to 690 V for current peak value n=30 rated value     1.3 KVA     up to 690 V for current peak value n=30 rated value     1.3 KVA     up to 690 V for current peak value n=30 rated value     3.1 KVA     up to 690 V for current peak value n=30 rated value     4 KVA     sub to 500 V for current peak value n=30 rated value     4 KVA     sub to 500 V for current neak value n=30 rated value     11 X Use minimum cross-section acc. to AC-1 rated value     ilmited to 1s switching at zero current maximum     ilmited to 3s switching at zero current maximum     ilmited to 4s switching frequency     illow 1s short to stope tot to switching to to to tot to to to to to to to tot to to		2.5 KW
• up to 400 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • limited to 1s switching at zero current maximum     • limited to 1s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 50 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • Load switching frequency     • at AC-1     • at AC-1     maximum     • at AC-3 maximum     • at AC-4 maximum		
• up to 500 V for current peak value n=20 rated value         4.6 kVA           • up to 590 V for current peak value n=20 rated value         5.9 kVA           operating apparent power at AC-6a         1.3 kVA           • up to 230 V for current peak value n=30 rated value         2.4 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         3.1 kVA           • up to 500 V for current peak value n=30 rated value         4.VA           Short-time withstand current in cold operating state up to 40° C         4.VA           • limited to 1 s witching at zero current maximum         155 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 1 s witching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 30 s witching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 60 s switching at zero current maximum         5 A; Use minimum cross-section acc. to AC-1 rated value           • at AC         10 000 1/h           operating frequency         66 A; Use minimum cross-section acc. to AC-1 rated value           • at AC         10 000 1/h           operating frequency         5 A; Use minimum cross-section acc. to AC-1 rated value           • at AC-1 maximum         10000 1/h		
• up to 690 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 230 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4.kVA         short-time withstand current in cold operating state up to 40 °C       4 kVA         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 50 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       50 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum		
operating apparent power at AC-6a       1.3 kVA         • up to 230 V for current peak value n=30 rated value       1.3 kVA         • up to 400 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4.VA         short-time withstand current in cold operating state up to 40 °C       4 kVA         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 50 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 50 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 50 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-3 maximum       1 000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control supply voltage at AC       400 V         • at S		
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>1.3 kVA</li> <li>up to 600 V for current peak value n=30 rated value</li> <li>2.4 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>3.1 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>3.1 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>4 kVA</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 15 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>66 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>66 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximu</li></ul>	· · · · · · · · · · · · · · · · · · ·	5.9 KVA
• up to 400 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       ilmited to 1 s switching at zero current maximum         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 3 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       67 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       67 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h         operating frequency       -         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       XC         type of voltage of the control supply voltage       AC         • at 60 Hz rated value       400 V         • at 60 Hz rated value		
• up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       5 A: Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 80 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       0 000 1/h         operating frequency       -         • at AC-1 maximum       1 000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control circuit/ Control       -         type of voltage of the control supply voltage       AC		
• up to 690 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to 40 °C4 kVA• limited to 1s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• at AC0 000 1/hoperating frequency10 000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum4C• at AC-4 maximum4C• at AC-4 maximum4C• at AC-4 maximum400 V• at AC-4 maximum400 V• at AC Harated value440 V• at AC Harated value440 V		
short-time withstand current in cold operating state up to 40 °C       ilimited to 1 s switching at zero current maximum         Iimited to 5 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         Iimited to 1 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         Iimited to 3 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         Iimited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         Iimited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         e at AC       10 000 1/h         operating frequency       1000 1/h         e at AC-3 maximum       750 1/h         e at AC-4 maximum       250 1/h         control circuit/ Control       400 V         e at 50 Hz rated value       400 V         e at 60 Hz rated value       400 V         e at 60 Hz rated value       400 V		
40 °C       • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 0 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       0 semiching frequency       • at AC         • at AC-1 maximum       1 000 1/h       • at AC-1 maximum         • at AC-2 maximum       1 000 1/h       • at AC-3 maximum         • at AC-3 maximum       250 1/h       Control circuit/ Control     <	· · ·	4 KVA
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• limited to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• at AC10 000 1/h• at AC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at 50 Hz rated value400 V• at 60 Hz rated value440 V• operating range factor control supply voltage rated value of magnet coil at AC		155 A: Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       55 A; Use minimum cross-section acc. to AC-1 rated value         • at AC       10 000 1/h         operating frequency       1000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       Voltage of the control supply voltage         AC       AC         • at 50 Hz rated value       400 V         • at 60 Hz rated value       400 V         • at 60 Hz rated value       400 V	-	
• limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         operating frequency       1 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       V         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       400 V         • at 60 Hz rated value       440 V         operating range factor control supply voltage rated value of magnet coil at AC       440 V	-	
• limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         operating frequency       1 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circuit/ Control       XC         type of voltage of the control supply voltage       AC         • at 50 Hz rated value       400 V         • at 60 Hz rated value       440 V         operating range factor control supply voltage rated value of magnet coil at AC       Single control supply voltage rated value of magnet coil at AC		
no-load switching frequency     10 000 1/h       • at AC     10 000 1/h       operating frequency     1 000 1/h       • at AC-1 maximum     1 000 1/h       • at AC-2 maximum     750 1/h       • at AC-3 maximum     750 1/h       • at AC-3 maximum     750 1/h       • at AC-3 maximum     750 1/h       • at AC-4 maximum     250 1/h       Control circuit/ Control     250 1/h       type of voltage of the control supply voltage     AC       • at 50 Hz rated value     400 V       • at 60 Hz rated value     440 V       operating range factor control supply voltage rated value of magnet coil at AC	-	
• at AC10 000 1/hoperating frequency.• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumAC• at AC-4 maximum400 V• at 50 Hz rated value400 V• at 60 Hz rated value440 V• operating range factor control supply voltage rated value of magnet coil at AC		
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• at AC-4 maximum       250 1/h         Control circuit/ Control          type of voltage of the control supply voltage       AC         control supply voltage at AC          • at 50 Hz rated value       400 V         • at 60 Hz rated value       440 V         operating range factor control supply voltage rated value of magnet coil at AC		
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type of voltage of the control supply voltage     AC       control supply voltage at AC     400 V       • at 50 Hz rated value     400 V       • at 60 Hz rated value     440 V       operating range factor control supply voltage rated value of magnet coil at AC     Factor control supply voltage rated value		
control supply voltage at AC     400 V       • at 50 Hz rated value     400 V       • at 60 Hz rated value     440 V       operating range factor control supply voltage rated value of magnet coil at AC     400 V		AC
• at 50 Hz rated value     • at 60 Hz rated value		
● at 60 Hz rated value 440 V operating range factor control supply voltage rated value of magnet coil at AC		400 V
operating range factor control supply voltage rated value of magnet coil at AC		
• at 50 Hz 0.8 1.1	operating range factor control supply voltage rated value of	
	● at 50 Hz	0.8 1.1

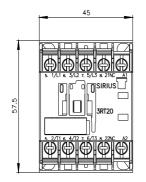
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	26.4 VA
• at 60 Hz	31.7 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.81
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
• at 50 Hz	4.4 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	
- at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp 3 hp
— at 460/480 V rated value	5 hp
— at 460/480 V rated value — at 575/600 V rated value	5 np 7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	

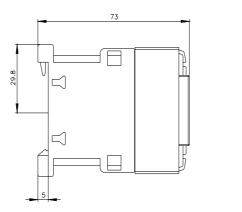
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nd snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
rotation possible on vertical mounting surface; can be tilted forward and d by +/- 22.5° on vertical mounting surface		
A (500 V, 1 kA)		
gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)		
. (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)		
A /		

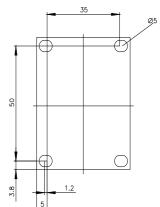
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS	18 DNV DNV	Lloyd's Register us	PRS	RINA	
Marine / Shipping	other			Railway	Environment	
RMRS	<u>Confirmation</u>	DE	<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations	
Further information						
Siemens has decided https://press.siemens.c	Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business					
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875						
https://www.siemens.co Industry Mall (Online			2016-4AR62			
	on.siemens.com/WW/CAXc	order/default.aspx?lang	en&mlfb=3RT2016-4AR6	<u>2</u>		
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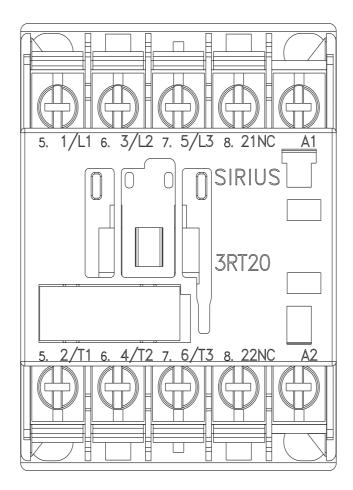
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-4AR62&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-4AR62/char

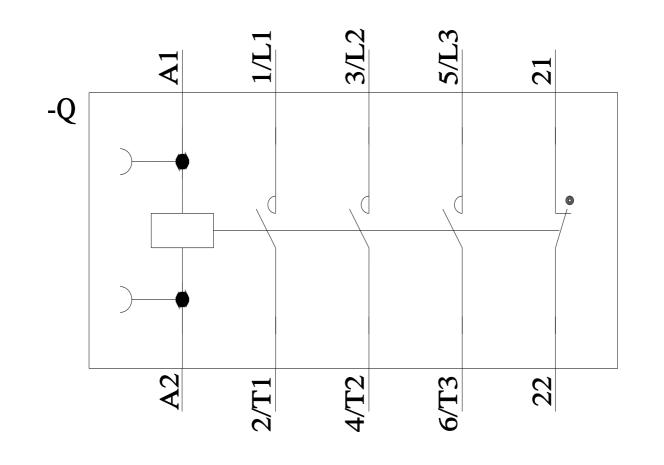
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-4AR62&objecttype=14&gridview=view1











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